

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An activity monitor comprising:

a measurement unit including a plurality of motion sensors, operable to produce respective sensor signals indicative of motion experienced thereby; and

a processor for receiving on an output channel of the measurement unit the sensor signals from the measurement unit and operable to process the signals ~~in accordance with a predetermined method,~~

~~characterized in that the measurement unit has a single output channel and is operable to output the sensor signals in turn on the output channel, and~~

~~characterized in that the measurement unit and the processor~~

~~are both attached to an object being monitored by the activity~~
~~monitor;~~

wherein the measurement unit is operable to operate the output
channel discontinuously in time during output of each motion sensor
output signal.

2. (Currently Amended) ~~An-The~~ activity monitor as claimed in
claim 1, wherein the motion sensors are accelerometers.

3. (Currently Amended) ~~An-The~~ activity monitor as claimed in
claim 1, wherein the motion sensors are arranged to be mutually
orthogonal.

4. (Currently Amended) ~~An-The~~ activity monitor as claimed in
claim 2 or 3, wherein the processor is operable to sample the
output channel of the measurement unit discontinuously in time.

Claim 5 (Canceled)

6. (Currently Amended) A method of monitoring activity ~~of an~~
~~object~~ using a plurality of motion sensors which are operable to
produce respective sensor signals indicative of motion experienced
thereby, the method comprising the acts of:

receiving monitoring the sensor signals discontinuously in
time; and

processing the sensor signals in accordance with a
predetermined method, characterized in that the sensor signals are
monitored in turn via a single channel at the object being
monitored.

7. (Currently Amended) ~~A The~~ method as claimed in claim 6,
~~wherein the output of the further comprising providing the sensor~~
~~signals on a single channel is monitored discontinuously in time,~~
wherein the monitoring act monitors in turn the sensor signals on
the single channel.

Claim 8 (Canceled)

9. (Currently Amended) An activity monitor comprising:

a measurement unit including a plurality of motion sensors, operable to produce respective sensor signals indicative of motion experienced thereby; and

a processor for receiving the sensor signals from the measurement unit and operable to process the signals in accordance with a predetermined method,

~~characterized in that the measurement unit has a single output channel and is operable to output the sensor signals in turn on the output channel, and~~

~~characterized in that wherein~~ the processor is operable to sample the output channel of the measurement unit discontinuously in time.

10. (Currently Amended) ~~An-The~~ activity monitor as claimed in claim 9, wherein the motion sensors are accelerometers.

11. (Currently Amended) ~~An-The~~ activity monitor as claimed in claim 9, wherein the motion sensors are arranged to be mutually

orthogonal.

12. (Currently Amended) ~~An~~ The activity monitor as claimed in claim 9, wherein the measurement unit is operable to operate the output channel discontinuously in time during output of each motion sensor output signal.

13. (New) The activity monitor of claim 9, wherein the measurement unit has a single output channel and is operable to output the sensor signals in turn on the output channel.

14. (New) The method of claim 6, wherein the processing act samples a single output channel of a measurement unit discontinuously in time, said single output channel including the sensor signals from the plurality of the motion sensors.

15. (New) The method of claim 6, wherein the processing act intermittently samples an output of a measurement unit that outputs the sensor signals.

16. (New) A method of monitoring activity using a plurality of motion sensors which are operable to produce respective sensor signals indicative of motion experienced thereby, the method comprising the acts of:

intermittently monitoring the sensor signals; and
processing the sensor signals.

17. (New) The method of claim 16, wherein the processing act intermittently samples a single output channel of a measurement unit, said single output channel including the sensor signals from the plurality of the motion sensors.

18. (New) An activity monitor comprising:
a measurement unit configured to produce sensor signals indicative of motion; and
a processor configured to intermittently monitor the sensor signals.

19. (New) The activity monitor of claim 18, wherein the measurement unit is connected to the processor through a single channel, the sensor signals being provided to the processor on the single output channel.

20. (New) The activity monitor of claim 18, wherein the measurement unit comprises a plurality of motion sensors for producing the sensor signals.